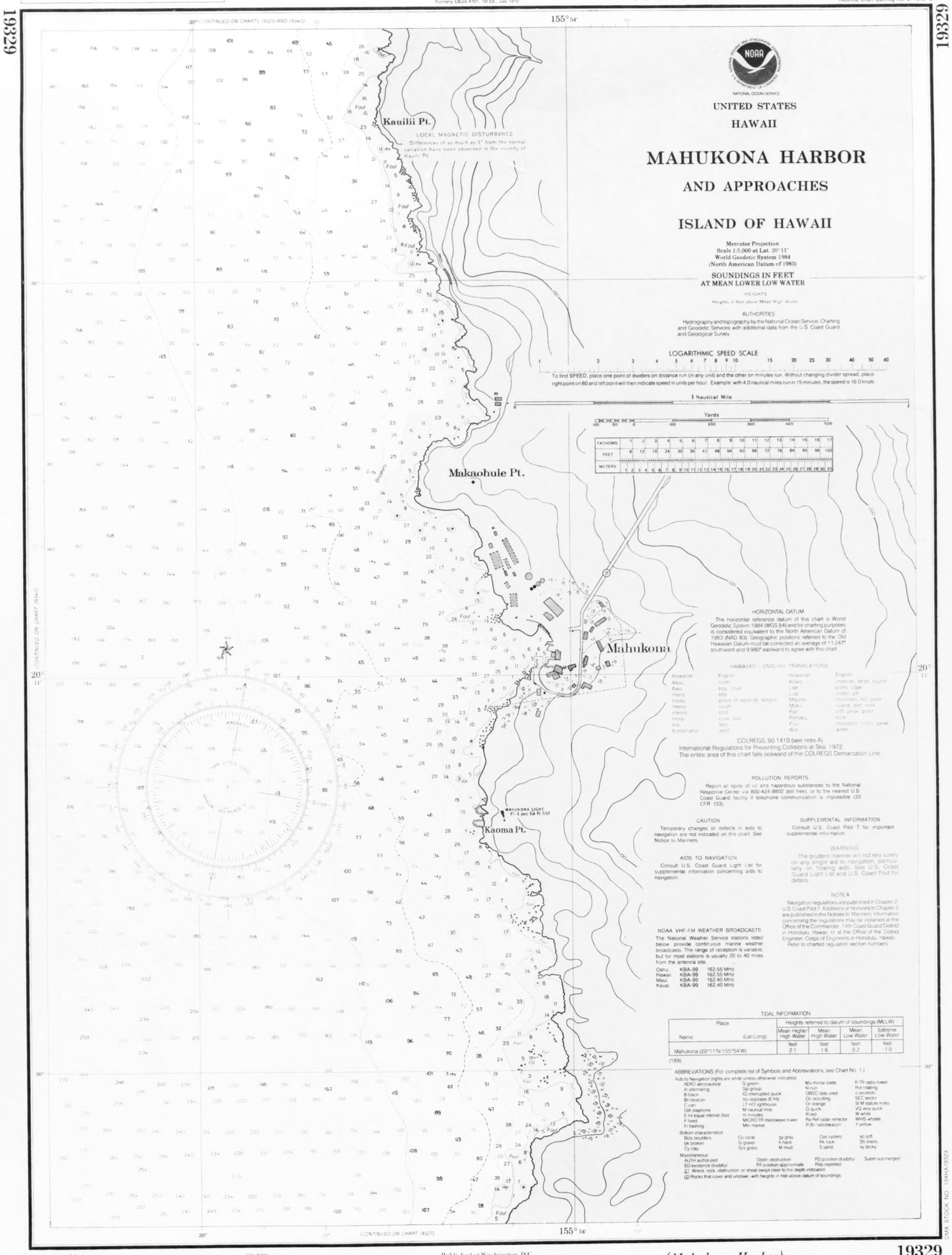
This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Director, Charting and Geodetic Services (N/CG22), National Ocean Service, NOAA, Rockville, Maryland 20852.

Formerly C&GS 4101, 1st Ed., July 1910

SOUNDINGS IN FEET

Nautical Chart Catalog No. 2, Panel C

19329



NOAA
NATIONAL OCEAN SERVICE

UNITED STATES

HAWAII

MAHUKONA HARBOR

AND APPROACHES

ISLAND OF HAWAII

Mercator Projection
Scale 1:5,000 at Lat. 20° 11'
World Geodetic System 1984
(North American Datum of 1983)

SOUNDINGS IN FEET
AT MEAN LOWER LOW WATER

HEIGHTS
Heights in feet above Mean High Water

AUTHORITIES
Hydrography and topography by the National Ocean Service, Charting and Geodetic Services with additional data from the U.S. Coast Guard and Geological Survey

LOGARITHMIC SPEED SCALE

1 2 3 4 5 6 7 8 9 10 15 20 25 30 40 50 60

To find SPEED, place one point of dividers on distance run (in any unit) and the other on minutes run. Without changing divider spread, place right point on 60 and left point will then indicate speed in units per hour. Example: with 4.0 nautical miles run in 15 minutes, the speed is 16.0 knots

1/2 Nautical Mile

Yards

FATHOMS 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
FEET 6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96 102
METERS 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

HORIZONTAL DATUM

The horizontal reference datum of this chart is World Geodetic System 1984 (WGS 84) and for charting purposes is considered equivalent to the North American Datum of 1983 (NAD 83). Geographic positions referred to the Old Hawaiian Datum must be corrected an average of 11.247" southward and 9.980" eastward to agree with this chart.

HAWAIIAN - ENGLISH TRANSLATIONS

Hawaiian	English	Hawaiian	English
Akau	north	Kowa	channel, strait, sound
Awa	bay, cove	Lae	point, cape
Hana	bay	Lua	crater, pit
Heiau	place of worship, temple	Mauna	mountain, hill, peak
Hema	south	Moku	island, islet, rock
Hikina	east	Pali	cliff, peak, point
Hono	cove, bay	Pohaku	rock
Kai	sea	Puu	mountain, hump, peak
Komohana	west	Wai	water

COLREGS: 80.1410 (see note A)
International Regulations for Preventing Collisions at Sea, 1972
The entire area of this chart falls seaward of the COLREGS Demarcation Line.

POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Notice to Mariners.

AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 7 for important supplemental information.

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 7. Additions or revisions to Chapter 2 are published in the Notices to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 14th Coast Guard District in Honolulu, Hawaii, or at the Office of the District Engineer, Corps of Engineers in Honolulu, Hawaii. Refer to charted regulation section numbers.

NOAA VHF-FM WEATHER BROADCASTS

The National Weather Service stations listed below provide continuous marine weather broadcasts. The range of reception is variable, but for most stations is usually 20 to 40 miles from the antenna site.

Oahu	KBA-99	162.55 MHz
Hawaii	KBA-99	162.55 MHz
Maui	KBA-99	162.40 MHz
Kauai	KBA-99	162.40 MHz

TIDAL INFORMATION

Place Name (Lat/Long)	Heights referred to datum of soundings (MLLW)			
	Mean Higher High Water	Mean High Water	Mean Low Water	Extreme Low Water
	feet	feet	feet	feet
Mahukona (20°11'N/155°54'W)	2.1	1.6	0.2	-1.0

(189)

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)

Aids to Navigation (lights are white unless otherwise indicated)
AERO aeronautical
Al alternating
Bl black
Bn beacon
C can
DIA diaphone
E Int equal interval (fos)
F fixed
Fl flashing
G green
Gp group
IQ interrupted quick
iso isophase (E Int)
LT HO lighthouse
M nautical mile
m minutes
MICRO TR microwave tower
Mkr marker
Mo morse code
N nun
OBSC obscured
Oc occulting
Or orange
Q quick
R red
Ra Ref radar reflector
R Bn radiobeacon
R TR radio tower
Rot rotating
s seconds
SEC sector
St M statute miles
VQ very quick
W white
WHS whistle
Y yellow

Bottom characteristics
Bldrs boulders
bk broken
Cy clay
Co coral
G gravel
Grs grass
gy gritty
h hard
M mud
Oys oysters
Pk rock
S sand
so soft
Sh shells
sy sticky

Miscellaneous
AUTH authorized
ED existence doubtful
Wk wreck, rock, obstruction, or shoal swept clear to the depth indicated
(2) Rocks that cover and uncover, with heights in feet above datum of soundings.
Obstn obstruction
PA position approximate
PD position doubtful
Rep reported
Subm submerged

CAUTION
This chart has been corrected from the Notice to Mariners published weekly by the Defense Mapping Agency Hydrographic/Topographic Center and the Local Notice to Mariners issued periodically by each U.S. Coast Guard district to the date shown in the lower left hand corner.

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U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE

(Mahukona Harbor)

SOUNDINGS IN FEET - SCALE 1:5,000

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